

HIGHLIGHTS

San Francisco Bay Area
**Environmental
Management Plan**

1979 Update

First Annual Report on Environmental Management Progress

Presented to
Regional Planning Committee

September 6, 1979

ASSOCIATION OF BAY AREA GOVERNMENTS



INTRODUCTION

- ENVIRONMENTAL MANAGEMENT PLAN (EMP) ADOPTED JUNE 1978
- PURPOSE OF 1979 UPDATE REPORT
 - SUMMARIZE ENVIRONMENTAL MANAGEMENT PROGRESS -- AIR AND WATER QUALITY, WATER SUPPLY, SOLID WASTE AND ENERGY RESOURCES
 - UPDATE CURRENT STATUS OF ADOPTED EMP
 - HIGHLIGHT SIGNIFICANT PLANNING ACTIVITIES PROPOSED IN FY 1980
 - DESCRIBE INSTITUTIONAL ASPECTS OF CARRYING OUT EMP
- UPDATE FEDERAL AND STATE LEGISLATIVE ACTIVITIES
- MONITOR OTHER REGIONS/STATES IN SIMILAR PLANNING AND REGULATORY ACTIVITIES



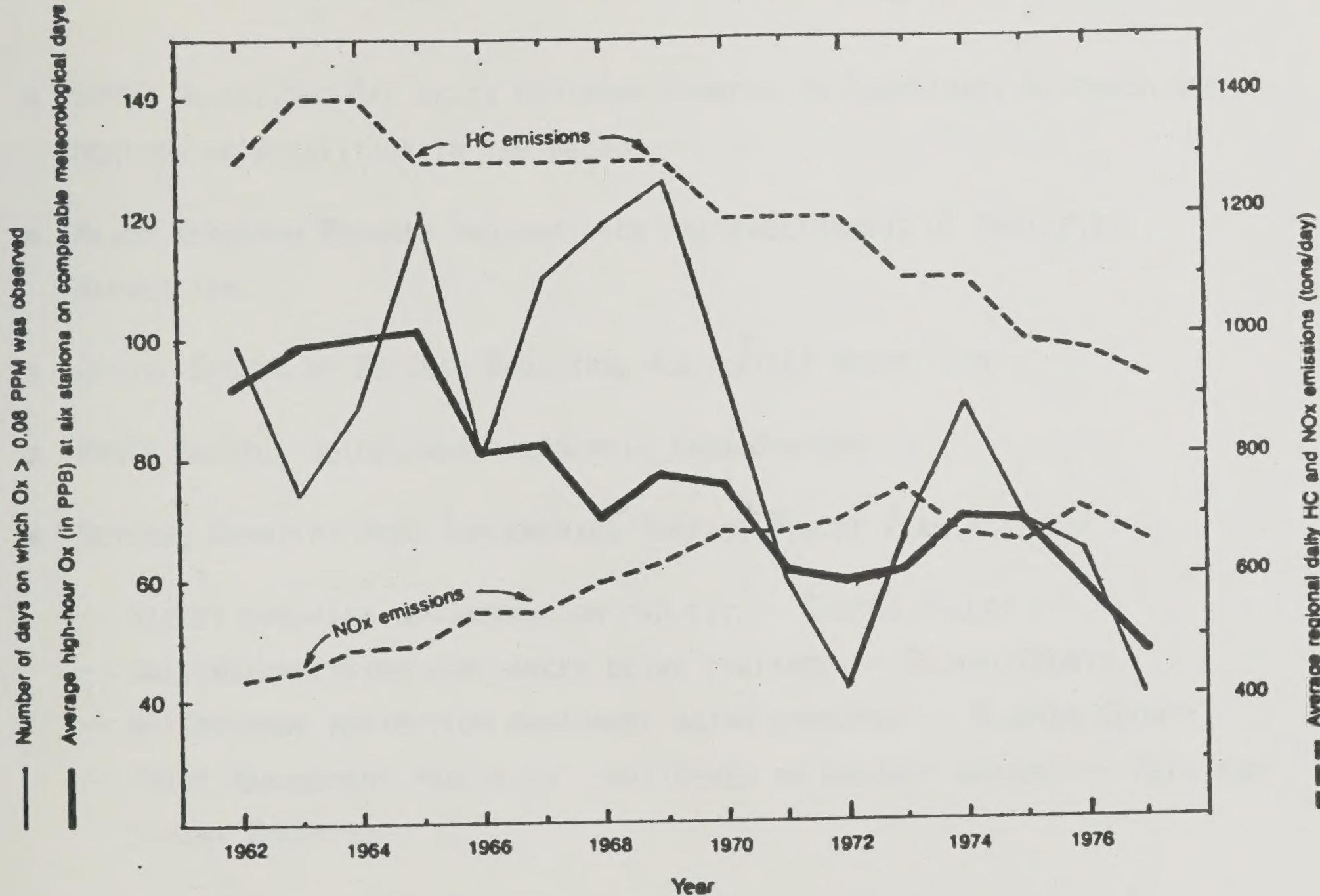
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AIR QUALITY-PROGRESS & STATUS

- ADOPTION AND IMPLEMENTATION OF REASONABLY AVAILABLE CONTROL MEASURES
UNDERWAY -- I/M LEGISLATION LACKING IN 1979 PLAN
- BAY AREA PROGRAMS COMPARABLE TO OTHER NONATTAINMENT AREAS IN CALIFORNIA
AND THE COUNTRY
- FUTURE ISSUES FACING REGION:
 - DEVELOPING OBJECTIVE REASONABLE FURTHER PROGRESS (RFP) INDICES
 - PROCESS FOR ALLOCATING EMISSIONS GROWTH ALLOWANCE
 - DEVELOPING PUBLICLY ACCEPTABLE AND DEFENSIBLE CO PLAN FOR PROTOTYPE
CITIES
 - 1982 PLAN UPDATE TASKS -- SCHEDULE, PRODUCTS, COOPERATION

Time histories of annual average precursor emissions, observed number of days exceeding the oxidant standard in the Bay Area and of oxidant trend based on comparable meteorological days.



HISTORICAL OXIDANT AND PRECURSOR TRENDS
IN THE SAN FRANCISCO BAY AREA

WATER QUALITY-PROGRESS & STATUS

- SWRCB ORGANIZING BAY DELTA ADVISORY COUNCIL TO COORDINATE RESEARCH AND MONITORING ACTIVITIES IN THE REGION
- MAJOR RESEARCH PROGRAM UNDERWAY FOR REESTABLISHMENT OF SHELLFISH HARVESTING
- ANNUAL UPDATE OF 20-YEAR MUNICIPAL FACILITIES NEEDS LIST
- RWQCB ADOPTED GUIDELINES FOR SEPTIC TANK SYSTEMS
- SEVERAL COUNTIES HAVE IMPLEMENTED SURFACE RUNOFF PLAN ACTIONS:
 - STREET SWEEPING DEMONSTRATION PROJECT -- CASTRO VALLEY
 - GRADING/CREEKSIDE ORDINANCES BEING PREPARED -- SOLANO COUNTY
 - WATERCOURSE PROTECTION ORDINANCE BEING PREPARED -- ALAMEDA COUNTY
 - "BEST MANAGEMENT PRACTICES" CONSIDERED IN PROJECT REVIEWS -- NAPA AND SONOMA COUNTIES

WATER QUALITY (continued)

- REMAINING WATER QUALITY PROBLEMS:

- LOCAL RIVER/STREAM CONTAMINATION -- BACTERIA, NUTRIENTS, SEDIMENT, OIL, DEBRIS
- STRIPED BASS -- UNEXPLAINED DIE-OFFS
- DEPRESSED DUNGENESS CRAB INDUSTRY
- SEDIMENTATION AND RELATED WATER QUALITY PROBLEMS IN MOST LAKES AND RESERVOIRS -- ALGAE, WEEDS, BACTERIA, OXYGEN DEPLETION
- RUNOFF FROM CONSTRUCTION ACTIVITIES LEADS TO EROSION/SEDIMENTATION PROBLEMS

**Comparison of 1975 and 1978 Municipal
Wastewater Treatment Plant Discharges^a**

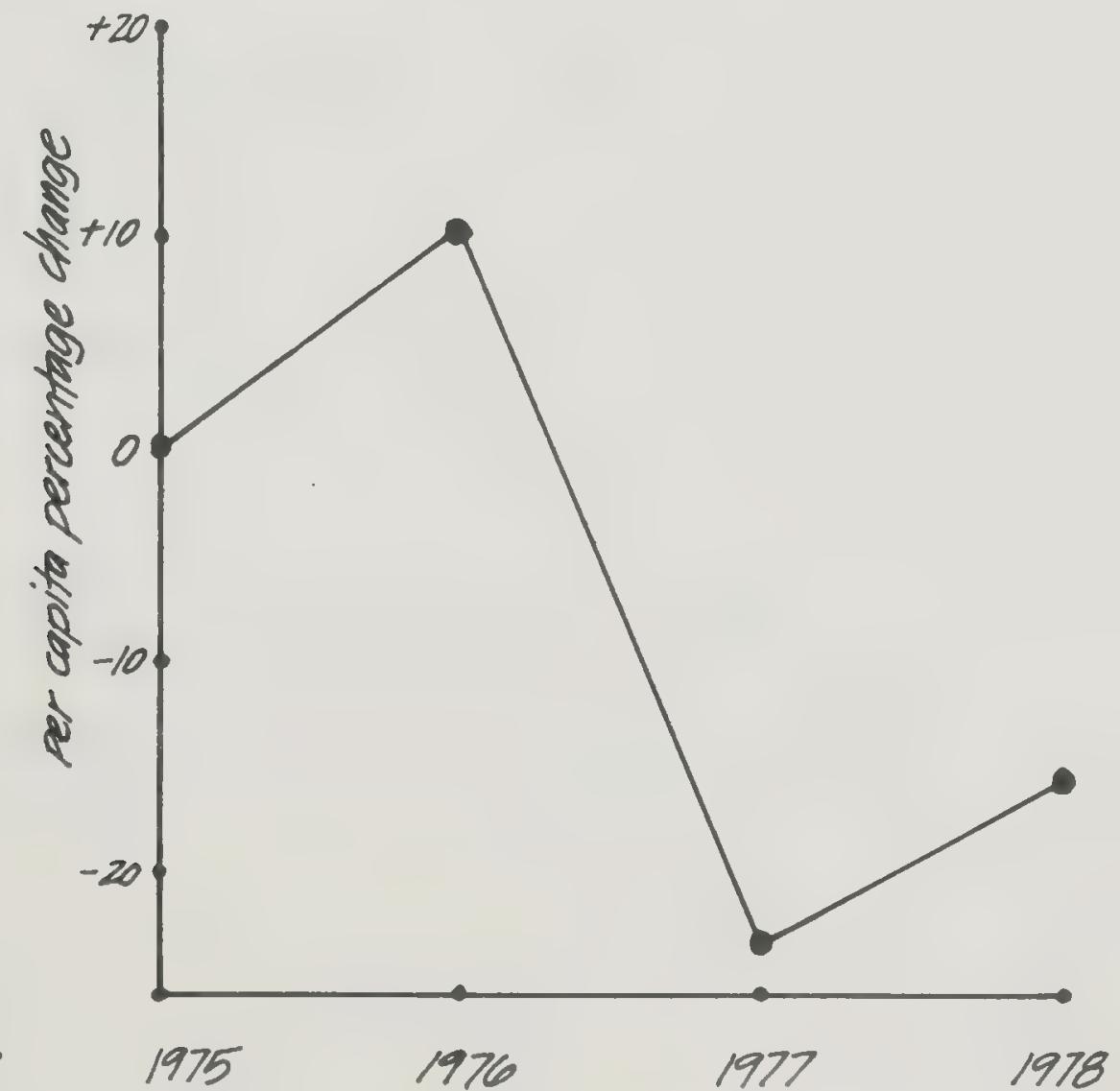
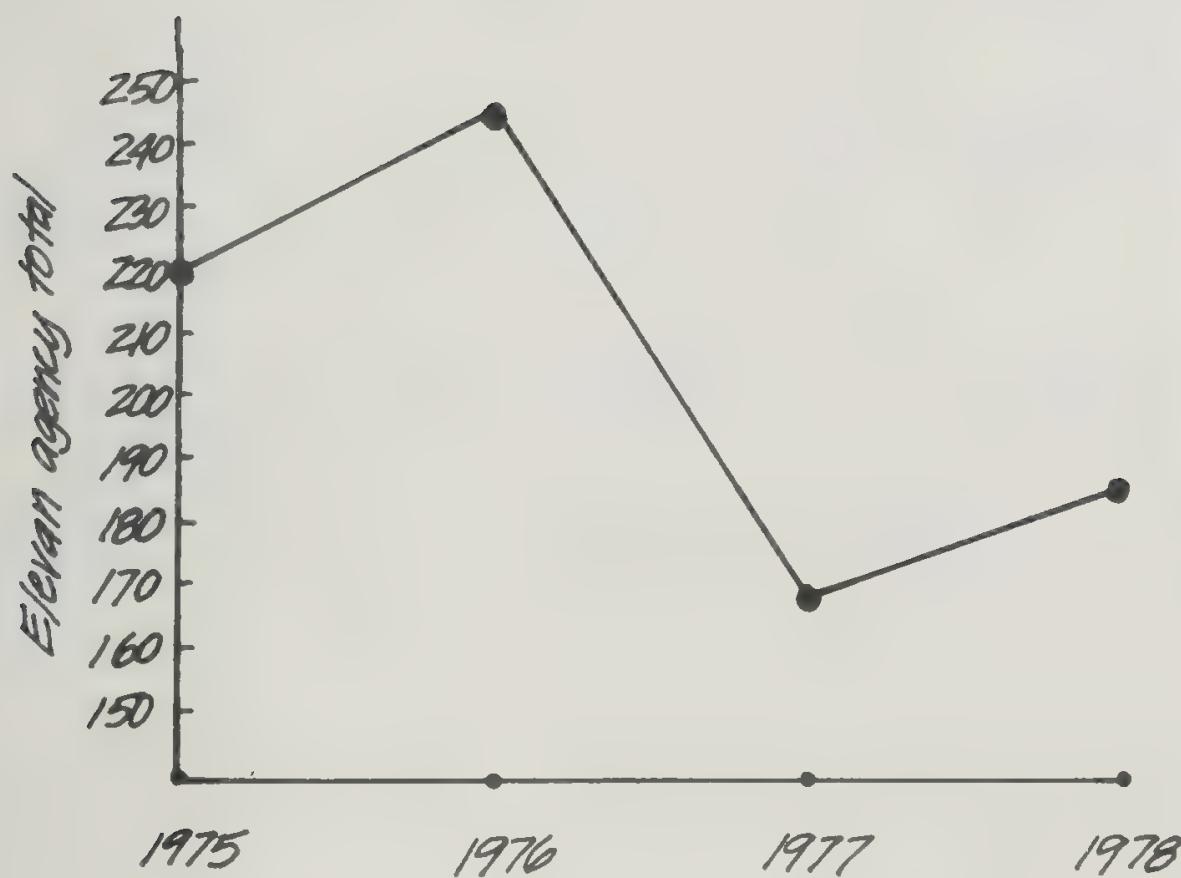
Population and parameters	1975	1978
Sewered population (s.u. 1 to 50)	4,486,000	4,597,000
Average dry weather flow (ADWF), mgd.	535	525
Biochemical oxygen demand (BOD ₅), ppd	404,000	315,000
Total suspended solids (TSS), ppd	247,000	220,000
Total nitrogen (TN), ppd	126,000	133,000
Ammonia nitrogen	82,000	82,000
Total phosphorus (TP), ppd	68,000	64,000
Total equivalent heavy metals, ppd		
gross chromium	2,670	less than 1,820
chronic toxicity equivalent	3,680	less than 2,180

^aBased on dischargers' self-monitoring reports and facilities plans.

WATER SUPPLY-PROGRESS & STATUS

- BAY AREA WATER RESOURCES COUNCIL FORMED -- SHARES INFORMATION ON INTERAGENCY WATER TRANSFERS, DROUGHT CONTINGENCIES, AND SAFETY OF WATER SUPPLIES. ALSO, COUNCIL REVIEWS LOCAL DWR STUDIES
- REGIONAL RECLAMATION STUDY HAS CONCLUDED RECLAIMED WATER CAN BE ECONOMICALLY COMPETITIVE WITH NEW WATER SUPPLY PROJECT. ONGOING STUDY OF SEVERAL POSSIBLE ALTERNATIVES.
- OTHER WATER CONSERVATION AND RECLAMATION PILOT STUDIES UNDERWAY. STATE AMENDING REGULATIONS TO PERMIT OR REQUIRE WATER SAVING DEVICES IN NEW CONSTRUCTION.
- FUTURE ISSUES FACING REGION:
 - INCREASED DEMAND ON DELTA FRESHWATERS FROM CENTRAL AND SOUTHERN CALIFORNIA
 - LONG TERM EFFECTIVENESS OF CONSERVATION EFFORTS
 - DWR PRESSURES FOR INTERAGENCY WATER TRANSFERS
 - SAFETY OF WATER SUPPLIES, E.G., ORGANICS, HEAVY METALS
 - PROTECTION OF GROUNDWATERS

BAY AREA WATER USE, billion gallons per year



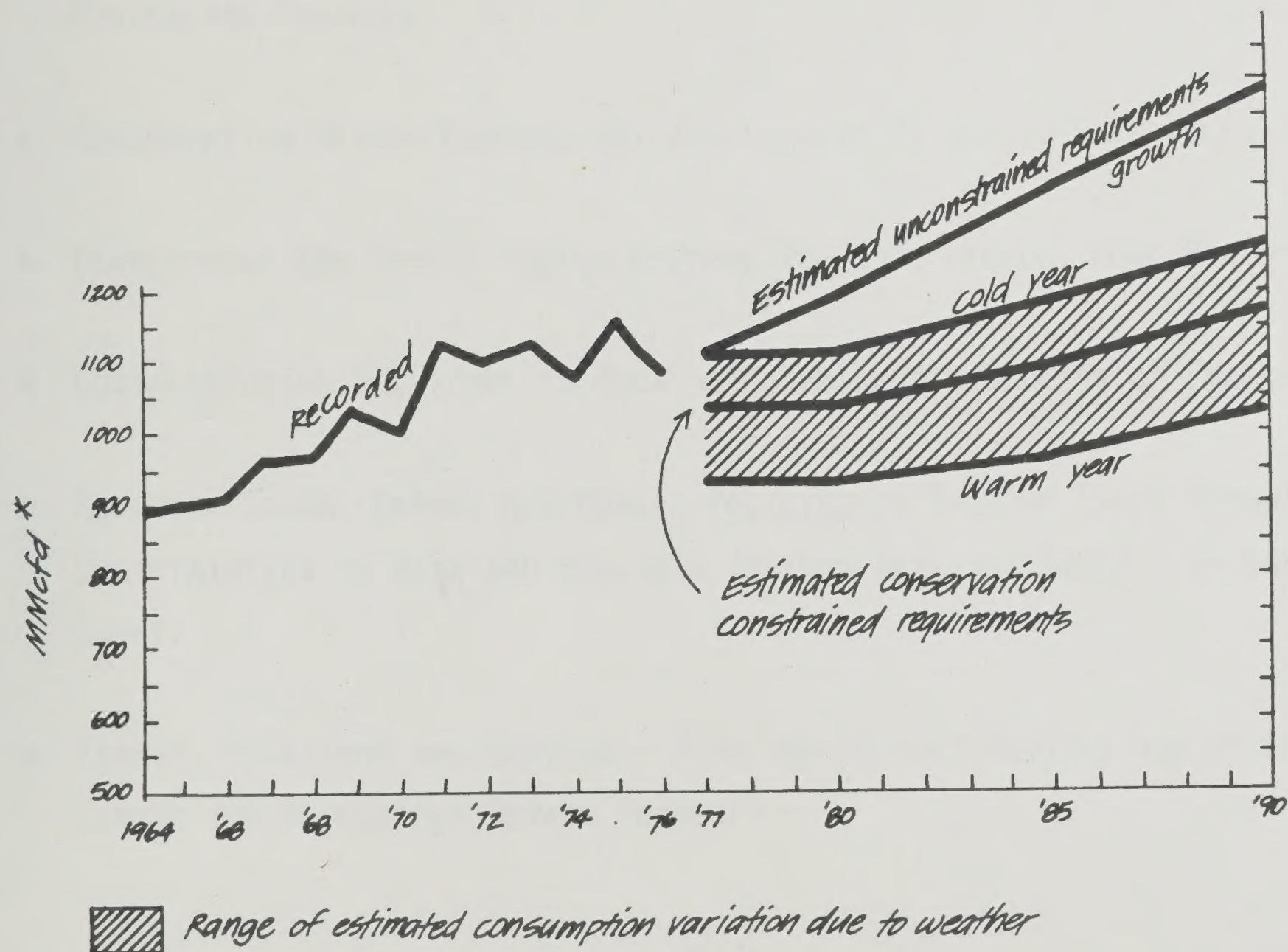
SOLID WASTE - PROGRESS & STATUS

- MUNICIPAL WASTE MANAGEMENT -- BUSINESS AS USUAL NOW AND PROJECTED IN NEAR FUTURE
- GROWING INTEREST IN WASTE TO ENERGY CONVERSION PROJECTS -- SOME INSTITUTIONAL, FINANCIAL, TECHNICAL ISSUES EXIST
- GREATER EMPHASIS ON HAZARDOUS WASTE MANAGEMENT -- UNDER CONTROL OR POTENTIAL TIME BOMB?
- ONGOING STRATEGY -- SOURCE REDUCTION, RECYCLING AND RESOURCE RECOVERY FOR ALL CATEGORIES OF SOLID WASTE (MUNICIPAL, INDUSTRIAL AND WASTEWATER SOLIDS)

ENERGY RESOURCES - STATUS

- REGIONAL DATA, DEMAND FORECASTING TECHNIQUES AND ECONOMIC IMPACT ANALYSIS OF ALTERNATIVE SUPPLY SITUATIONS NEEDED
- IMPROVED UNDERSTANDING OF ENERGY IMPACTS OF REGIONAL ENVIRONMENTAL POLICIES AND ACTIONS IS NEEDED
- EXTENT OF ENERGY CONSERVATION MEASURES IN REDUCING DEMAND TO BE DETERMINED
- IDENTIFICATION AND IMPLEMENTATION OF COST-EFFECTIVE ENERGY-CONSERVING ACTIONS BY LOCAL GOVERNMENTS TO BE STUDIED.

P1 and P2A Natural Gas Requirements for Northern California: Recorded and Estimated from 1964-1990



Source: California Public Utilities Commission

INTEGRATED PLANNING ISSUES

- INTERMEDIA IMPACTS, E.G., CAA §316 (AIR/WATER) AND WASTE TO ENERGY CONVERSION PROJECTS
- CONSERVATION VERSUS CONTROL (OR WILLINGNESS TO ADJUST LIFESTYLES)
- DEVELOPMENT AND GROWTH VERSUS CONTROL (OR MORE PEOPLE, MORE POLLUTION)
- COST-EFFECTIVE SOLUTIONS TO AREA OR NON-DISCRETE SOURCES OF POLLUTION
- ADOPTING SOUND, DEFENSIBLE PUBLIC POLICIES IN VIEW OF LARGE TECHNICAL UNCERTAINTIES IN DATA AND ANALYSIS (OR WHO GETS THE BENEFIT OF THE DOUBT)
- TIMELY, EFFICIENT AND EQUITABLE PLAN AND PROJECT REVIEWS (OR STREAMLINING THE REGULATORY REVIEW PROCESS)

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